

Application Serial No. 09/901,120  
Amendment dated April 6, 2004  
Reply to Office action of October 6, 2003

Amendments to the Specification:

Please amend the specification of record as follows. No new matter has been added.

Please amend the paragraph at page 9, between lines 9 and 20, as follows

Figure 8 illustrates an automated setup for fixing a tissue sample using ultrasound. Reagents from container 1 are pumped to a reaction chamber 2 containing sample 3. A pump 4 pumps solution from chamber 2 to a waste receptacle 5. A distributor 6 driven by motor 7 selects between different reagent containers such that different reagents can be pumped through reaction chamber 2. Tissue sample 3 is placed into the reaction chamber 2 with or without tissue cassette 8. A cover 9 encloses the chamber. A central processing unit (CPU) 10 controls motor 7 and pump 4. The CPU also controls the temperature of reaction chamber 2 by regulating a heating and cooling plate 11 in contact with the reaction chamber 2. The CPU also controls an ultrasound generator 12 and regulates the frequency and intensity of ultrasound being produced. The transducers 13 emit ultrasound radiation and the sensors 14 send the digitized information to the central processing unit 10. The tissue sample can instead be a membrane, a membrane filter, or some other type of sample which is placed into the reaction chamber 2.